Species Tag:	52012	Species Name:	DNCCC
Version:	1		
Date:	Jan. 1995		
Contributor:	M. L. Delitsky		
	H. M. Pickett		
Lines Listed:	3098	Q(300.0)=	12778.1637
Freq. (GHz) <	861.502	Q(225.0)=	9591.6915
Max. J:	99	Q(150.0)=	6395.7308
LOGSTR0=	-10.0	Q(75.00)=	3199.2303
LOGSTR1=	-100.0	Q(37.50)=	1601.0829
Isotope Corr.:	-3.824	Q(18.75)=	802.0379
Egy. (cm^{-1}) >		Q(9.375)=	402.5269
μ_a =	5.665	A=	
μ_b =		B=	4400.593
μ_c =		C=	

The observed laboratory frequency measurements were taken from Y. Hirahara, Y. Oshima and Y. Endo, 1993, Astrophys. J. **403**, L83.

The dipole moment for HNCCC was calculated by P. Botschwina, M. Horn, S. Seeger and J. Flügge, 1992, Chem. Phys. Lett. **195**, 427. The same value was assumed for DNCCC.

Although quantum calculations of the structure indicate that the molecule may be non-linear, spectral measurements are available only for the $K = 0$ state. For the purposes of fitting the spectra and predicting frequencies and intensities, the $K = 0$ states are equivalent to a linear molecule. The catalog entries for this species are currently presented as a linear molecule, and the intensities are calculated for a unit concentration of $K = 0$ molecules in the ground vibrational state.